

# PATENT ABSTRACTS OF JAPAN

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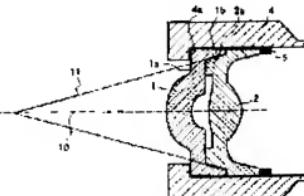
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## (54) METHOD FOR POSITIONING AND FIXING TWO OR MORE LENSES IN LENS BARREL AND OPTICAL EQUIPMENT APPLYING THE SAME

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a method for positioning a lens by which positional relation between the lenses optically or physically facing to each other is decided by superposing several lenses in an optical axis direction while making them abut on each other, and to provide optical equipment applying the method.

**SOLUTION:** A lens barrel 4, a 1st lens 1 being at least two or more lenses housed in the lens barrel and having a conical surface 1b with an optical axis 10 as center at the rib inner wall part of the edge outer periphery part, and a 2nd lens 2 having a conical surface 2a engaged with the conical surface 1b with the optical axis 10 as center on the rib outer wall part of the edge outer periphery part are prepared. The 1st lens 1 is inserted in the lens barrel and positioned in the optical axis direction by abutting on a receiving surface 4a in the lens barrel. The 2nd lens 2 is inserted in the lens barrel 4 and positioned in the optical axis direction with respect to an optical axis by making the conical surface 1b of the 1st lens 1 abut on the conical surface 2a of the 2nd lens 2. Then, the 2nd lens 2 is fixed in the lens barrel 4 with an adhesive 5 in the vicinity of the insertion part of the lens barrel 4.



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